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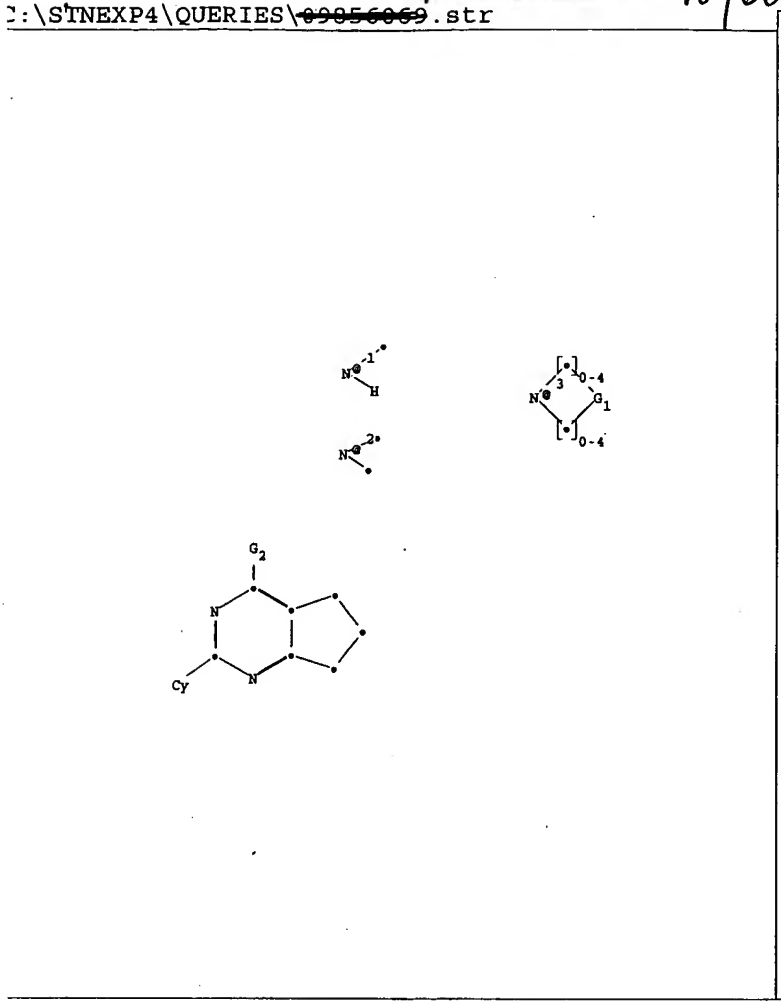

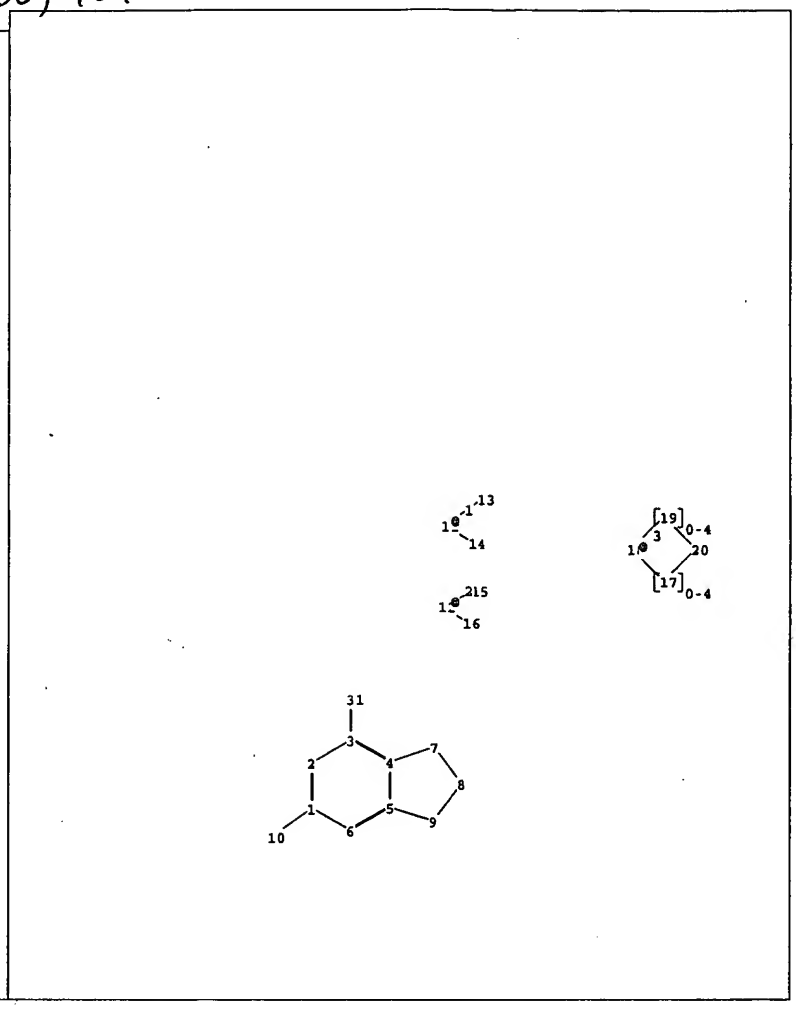

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10 11 12 14 31
:ing nodes :
1 2 3 4 5 6 7 8 9 17 18 19 20
:ing/chain nodes :
13 15 16
:hain bonds :
1-10 3-31 11-13 11-14 12-15 12-16
:ing bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 17-18 17-20 18-19 19-20
:xact/norm bonds :
1-10 3-31 4-7 5-9 7-8 8-9 11-13 11-14 12-15 12-16 17-18 17-20 18-19 19-20
ıormalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
.solated ring systems :
containing 1 : 17 :

:1:O,S

:2:[*1],[*2],[*3]

latch level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom
31:CLASS
ieneric attributes :
10:
Saturation : Unsaturated

```
=>
Uploading 09856069.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1 sss sam
SAMPLE SEARCH INITIATED 16:10:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   6721 TO ITERATE

 14.9% PROCESSED    1000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       129510 TO   139330
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 sss ful
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FULL SCREEN SEARCH COMPLETED - 135184 TO ITERATE

100.0% PROCESSED  135184 ITERATIONS                               70 ANSWERS
SEARCH TIME: 00.00.07

L3           70 SEA SSS FUL L1

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L4           12 L3

=> d l4 1-12 bib,ab,hitstr
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L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220584 CAPLUS
DN 136:247584
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Bebbington, David; Knegtel, Ronald; Golec, Julian M. C.; Li, Pan; Davies, Robert; Charrier, Jean-Damien
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 356 pp.
CODEN: PIXXD2
DT Patent
LA English
not Prior art
FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022608	A1	20020321	WO 2001-US42152	20010914

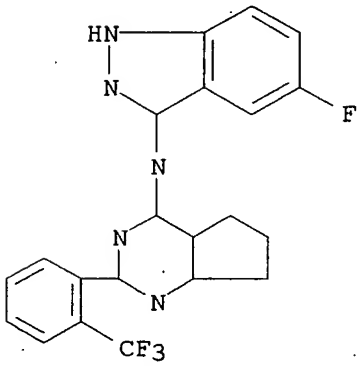
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
not Prior

OS MARPAT 136:247584
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I [wherein Z1 = CR9; Z2 and Z3 = N; Z4 = CRy]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.
IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-

dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



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RN 404827-42-5 CAPLUS
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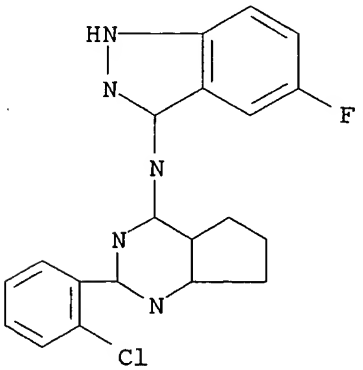
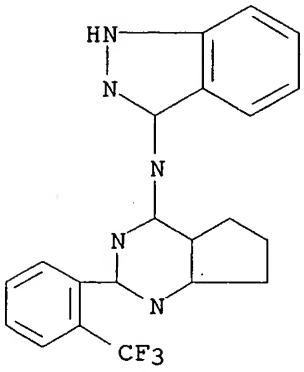


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



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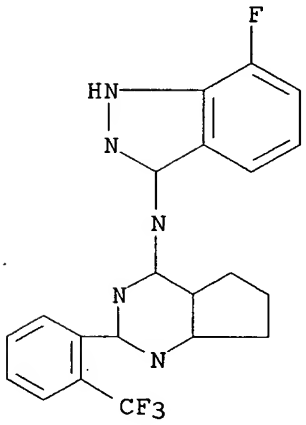

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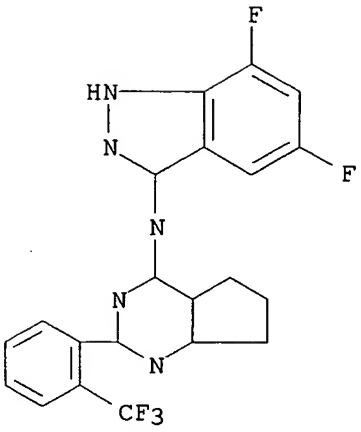

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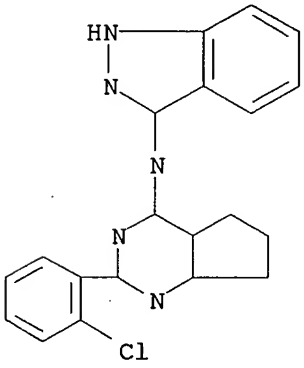

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
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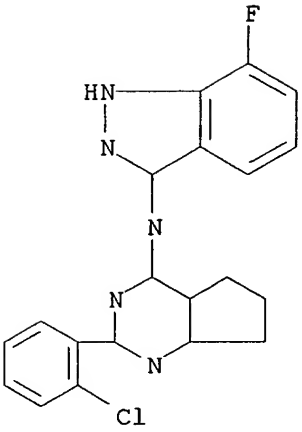

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
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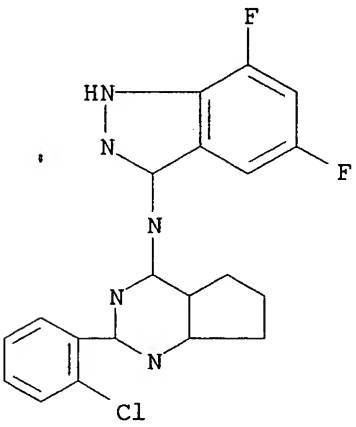


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220583 CAPLUS
DN 136:247583
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Davies, Robert; Bebbington, David; Knegtel, Ronald; Wannamaker, Marion; Li, Pan; Forester, Cornelia; Pierce, Albert; Kay, David
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 373 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

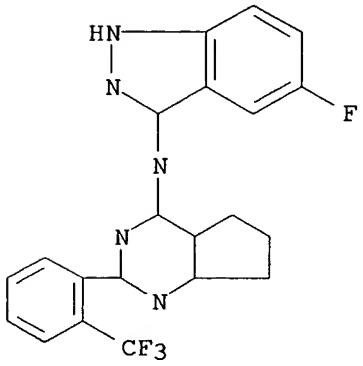
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022607	A1	20020321	WO 2001-US28940	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
OS MARPAT 136:247583
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I [wherein Z1 and Z2 = N; Z3 = CRx; Z4 = CRy; G = Ring C]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.
IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-

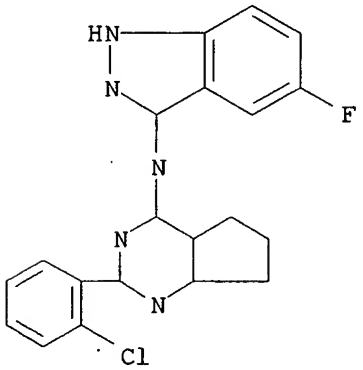
dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

RN 404827-42-5 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
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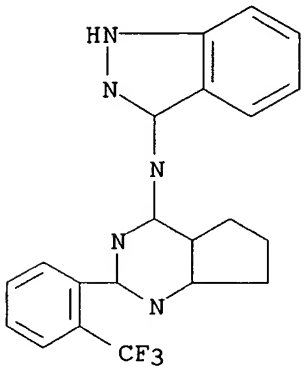
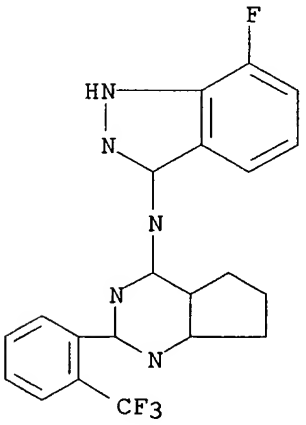


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



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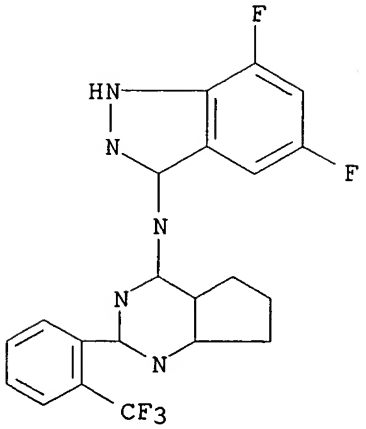

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
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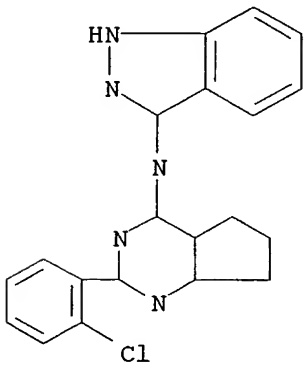

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RN 404827-47-0 CAPLUS
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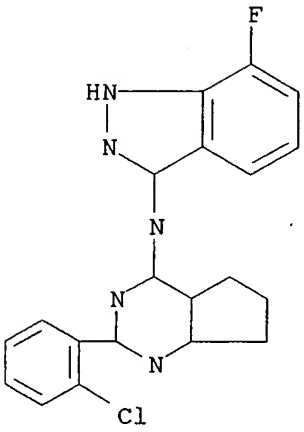

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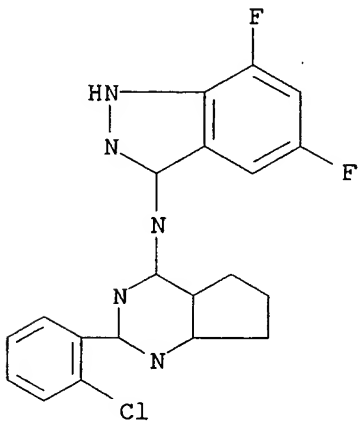
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220582 CAPLUS
DN 136:247582
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Bebbington, David; Binch, Hayley; Knegtel, Ronald; Golec, Julian M. C.; Patel, Sanjay; Charrier, Jean-Damien; Kay, David; Davies, Robert; Li, Pan; Wannamaker, Marion; Forster, Cornelia; Pierce, Albert
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 355 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

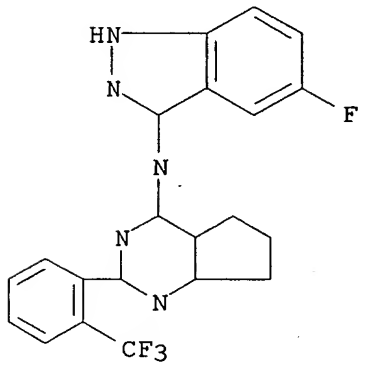
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022606	A1	20020321	WO 2001-US28803	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
OS MARPAT 136:247582
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (pyrimidinyl)pyrazolamines and indazolamines I [wherein Z1 and Z2 = N; Z3 = CRx; Z4 = CRy; G = Ring D]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.

IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



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RN 404827-42-5 CAPLUS
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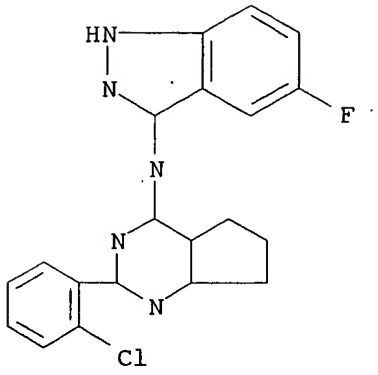

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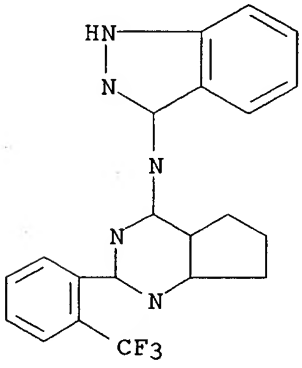
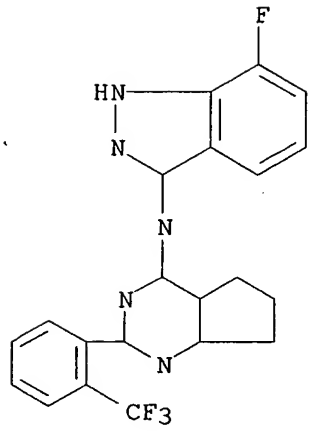


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
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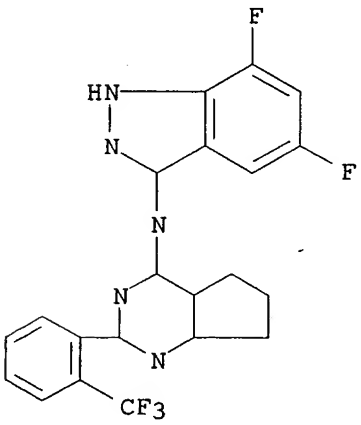

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-46-9 CAPLUS
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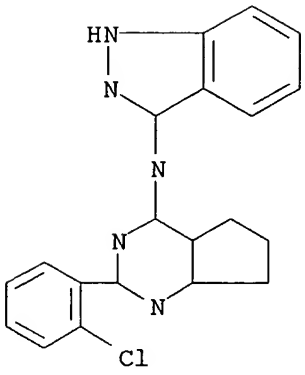
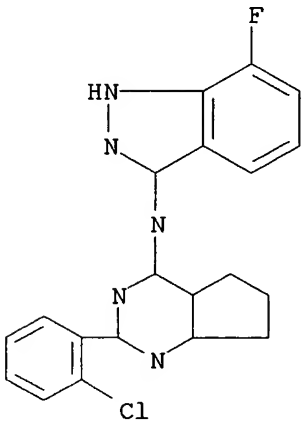
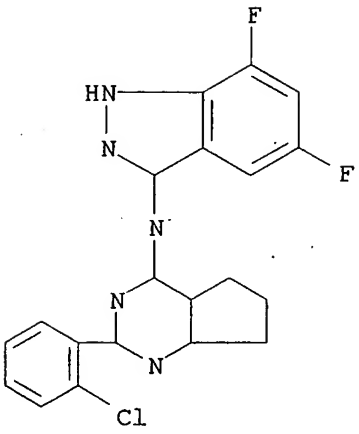


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220581 CAPLUS
DN 136:247581
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Golec, Julian M. C.; Charrier, Jean-Damien; Knegtel, Ronald; Bebbington, David; Davies, Robert; Li, Pan
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 357 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

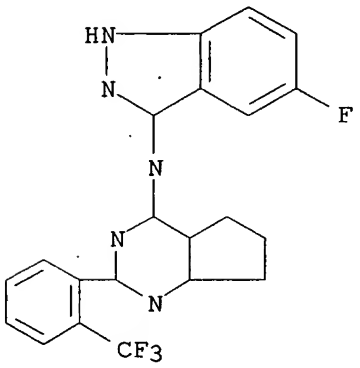
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022605	A1	20020321	WO 2001-US28793	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
OS MARPAT 136:247581
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover pyrazolamines and indazolamines I [wherein Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N; at least one of Z1 or Z3 = N]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.
IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-

dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***

RN 404827-42-5 CAPLUS
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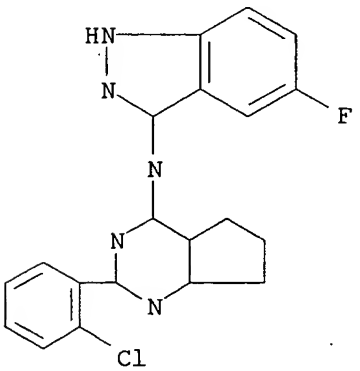

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
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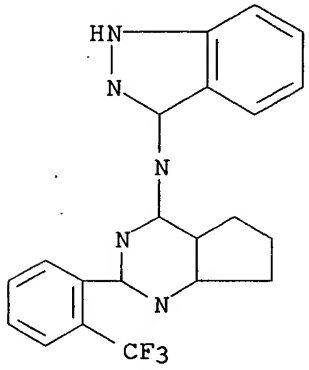

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
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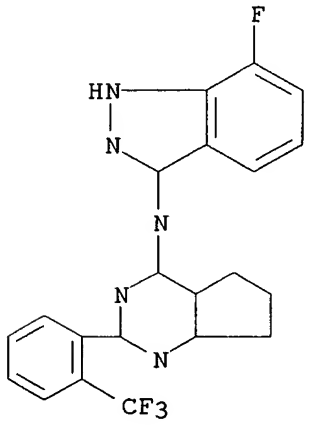

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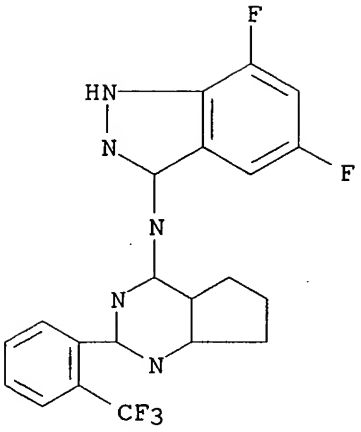

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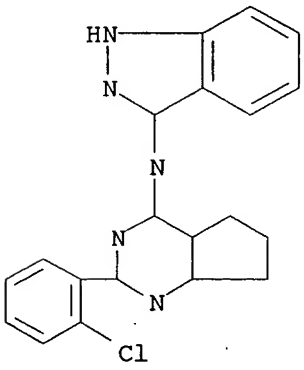

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
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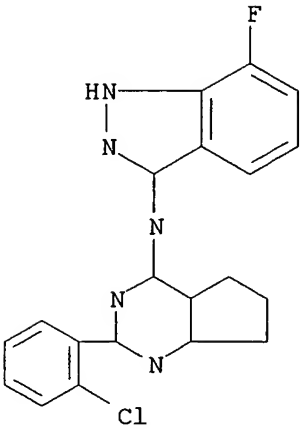

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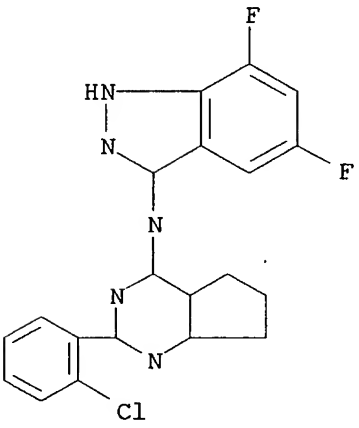


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

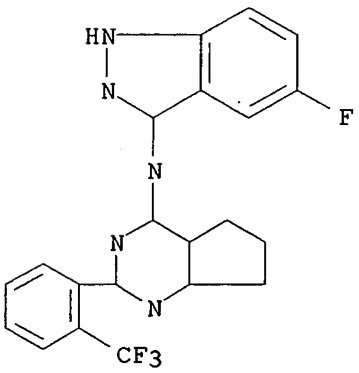
L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220580 CAPLUS
DN 136:247606
TI Preparation of 3-(4-pyrimidinylamino)pyrazole derivatives as protein kinase inhibitors, especially of Aurora-2 and GSK-3, for treating cancer, diabetes and Alzheimer's disease.
IN Davies, Robert; Bebbington, David; Binch, Haley; Knegtel, Ronald; Golec, Julian M. C.; Patel, Sanjay; Charrier, Jean-Damien; Kay, David; Davies, Robert
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 357 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022604	A1	20020321	WO 2001-US28792	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
OS MARPAT 136:247606
AB The prepn. of title compds. I and their pharmaceutically acceptable salts or prodrugs is described [wherein: R1, R2 = dependently form (un)substituted fused, unsatd. or partially unsatd., 5-8 membered carbocyclo ring; R3, R4 = independently H, aliph., aryl, heteroaryl, heterocyclyl, or wide variety of functionalized sidechains; or dependently form a fused, 5-8 membered, unsatd. or partially unsatd. ring having 0-3 ring heteroatoms (N, S, O); R5 = fused, (un)substituted 5-7 membered monocyclic ring or 8-10 membered bicyclic ring (aryl, heteroaryl, heterocyclyl or carbocyclyl, said heteroaryl or heterocyclyl ring having 1-4 ring heteroatoms (N, S, O))]. For example, chlorination of quinazolone II with phosphorus oxychloride, followed by condensation with 3-amino-5-methylpyrazole afforded claimed compd. III. Compds. I are inhibitors of GSK-3 and Aurora-2 protein kinases. The invention also relates to methods of treating diseases assocd. with these protein kinases, such as diabetes, cancer and Alzheimer's disease. In bioassays, compds. I inhibited the following kinases with Kis reported < 100 nM: GSK-3.beta. (163 compds.), AURORA-2 (65 compds.), CDK-2 (no data), ERK2 (8 compds.), AKT (no data), and Human Src kinase (21 compds.). Claims included 146 specific compds., and 188 examples were given. The syntheses of 6 compds. and 46 intermediates are described.
IT **404827-36-7P 404827-42-5P 404827-43-6P**
404827-44-7P 404827-45-8P 404827-46-9P
404827-47-0P 404827-48-1P 404844-84-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 3-(4-pyrimidinylamino)pyrazole compds. as protein kinase

inhibitors)
RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-42-5 CAPLUS
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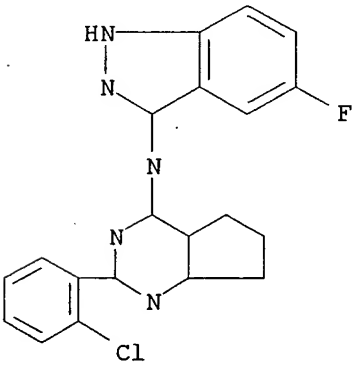

*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
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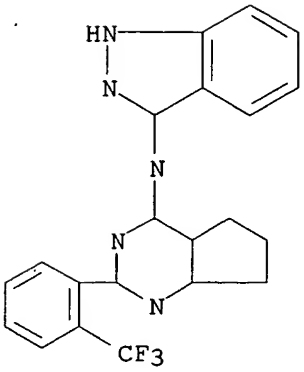
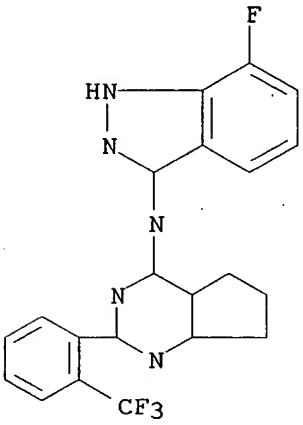
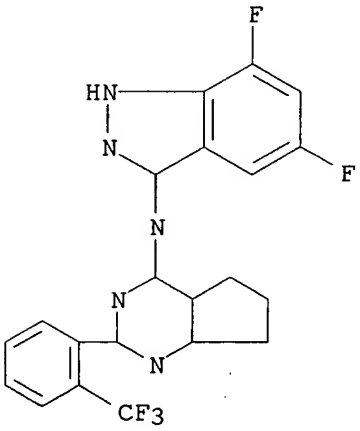


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-45-8 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-46-9 CAPLUS
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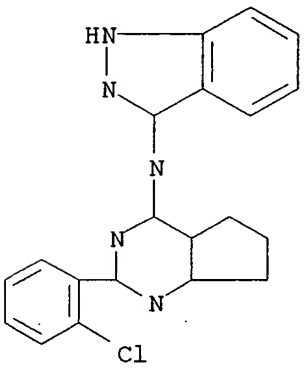
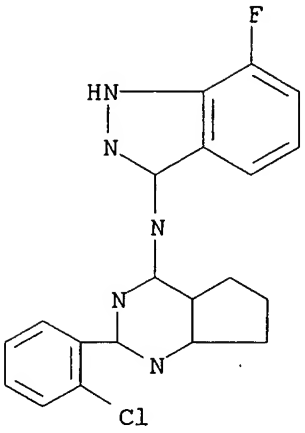
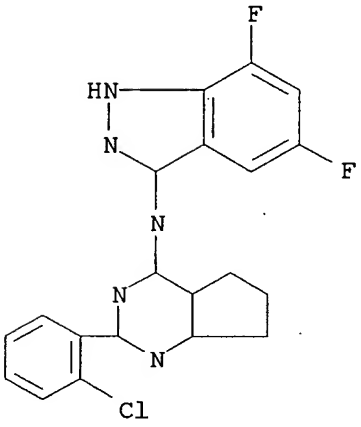


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
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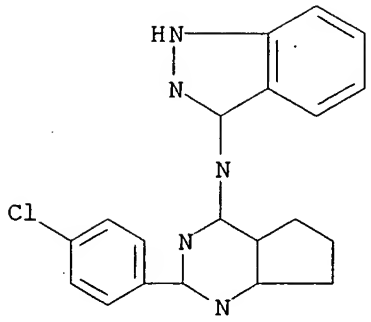


*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220579 CAPLUS
DN 136:247580
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Davies, Robert; Li, Pan; Golec, Julian; Bebbington, David
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 406 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022603	A1	20020321	WO 2001-US28738	20010914

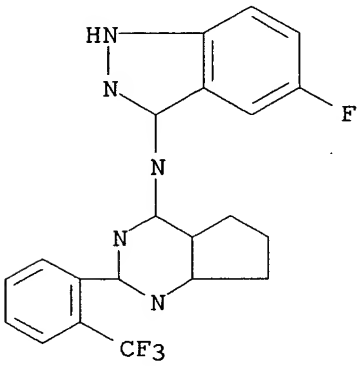
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI	US 2000-232795P	P	20000915
	US 2000-257887P	P	20001221
	US 2001-286949P	P	20010427

OS MARPAT 136:247580
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (triazinyl)pyrazolamines and indazolamines I [wherein Z1, Z2, and Z3 = N; Z4 = CRy]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.
IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine

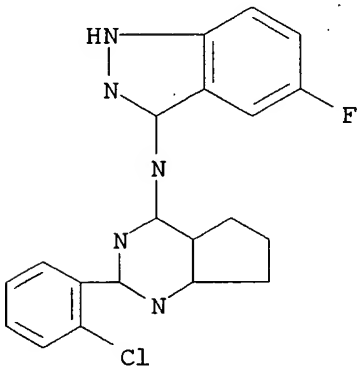
404827-43-6P, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)

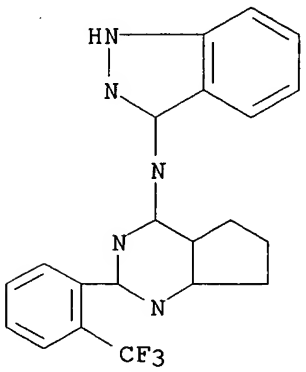


*** FRAGMENT DIAGRAM IS INCOMPLETE ***

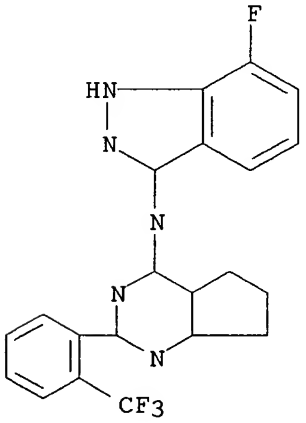
RN 404827-42-5 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



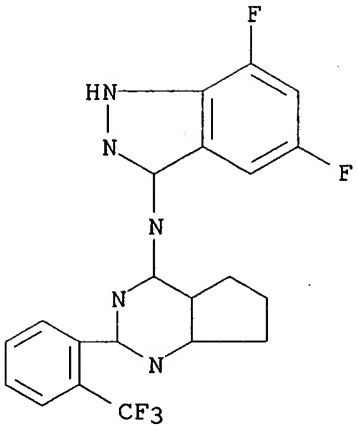
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



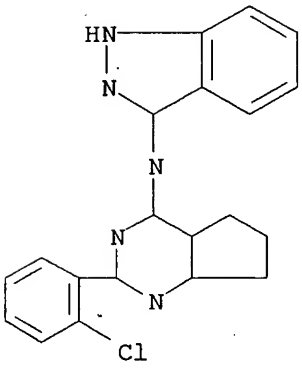
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



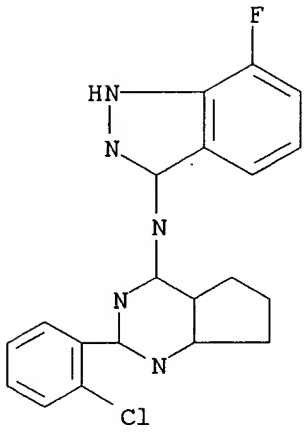
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-45-8 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



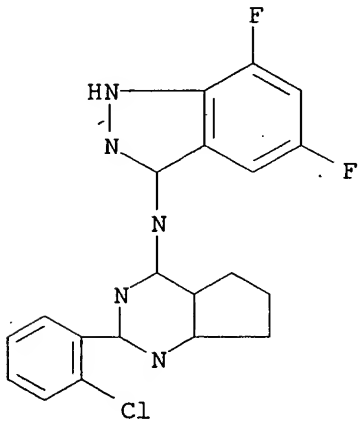
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-46-9 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220578 CAPLUS
DN 136:263164
TI Preparation of triazolamines as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Bebbington, David; Knegtel, Ronald; Binch, Haley; Golec, Julian M. C.; Li, Pan; Charrier, Jean-Damien
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 377 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

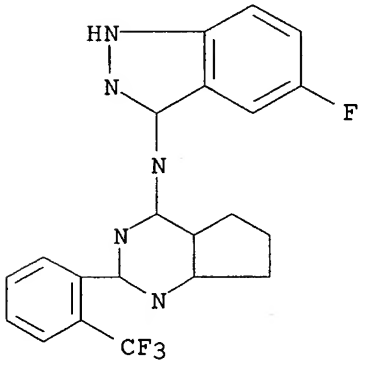
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022602	A2	20020321	WO 2001-US42162	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-232795P P 20000915
US 2000-257887P P 20001221
US 2001-286949P P 20010427
OS MARPAT 136:263164
AB Triazolamines I and pyrazolamines II [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover (heterocyclyl)triazolamines I [wherein Z1 = N or CR9; Z2 = N or CH; R9 is defined above]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-quinazolinyl)-1H-1,2,4-triazol-3-amine III was prepd. and exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 1.0-20 .mu.M for Aurora-2.
IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-

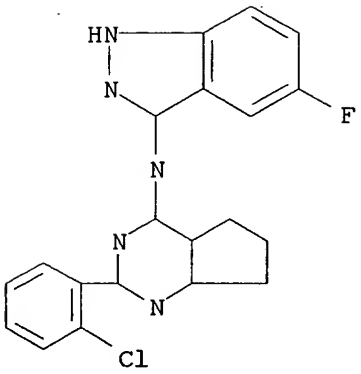
dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine **404889-65-2P 404891-20-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of triazolamines, pyrazolamines, and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)

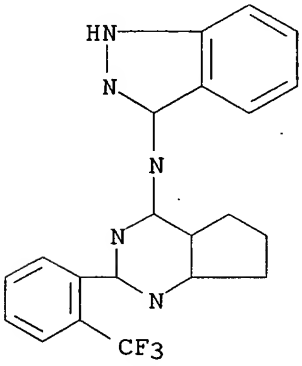


*** FRAGMENT DIAGRAM IS INCOMPLETE ***

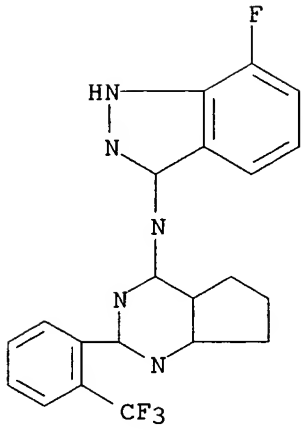
RN 404827-42-5 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



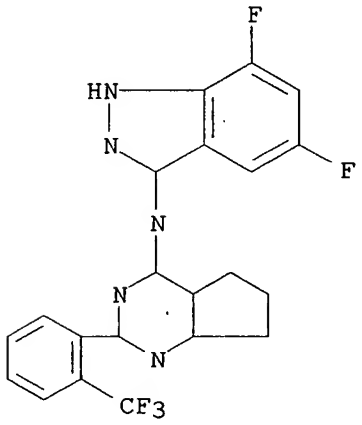
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



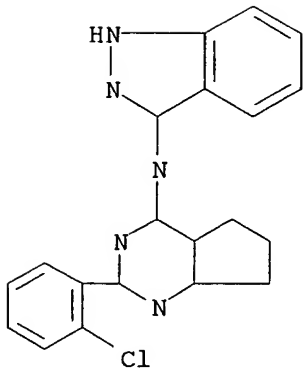
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



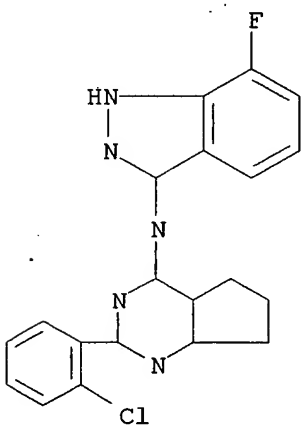
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-45-8 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



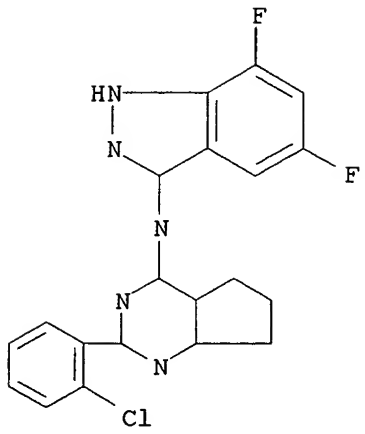
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-46-9 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



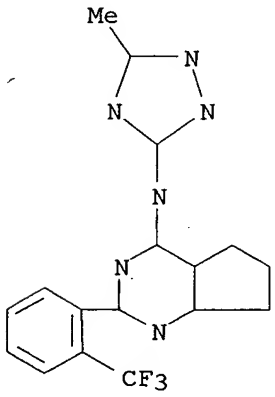
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



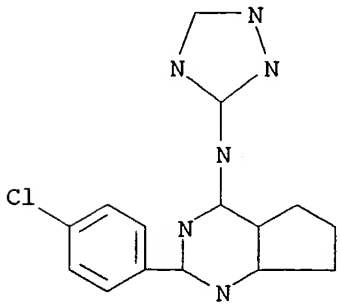
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404889-65-2 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 6,7-dihydro-N-(5-methyl-1H-1,2,4-triazol-3-yl)-2-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404891-20-9 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-1H-1,2,4-triazol-3-yl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2002:220577 CAPLUS
DN 136:247579
TI Preparation of pyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease
IN Knegtel, Ronald; Bebbington, David; Binch, Hayley; Golec, Julian; Patel, Sanjay; Charrier, Jean-Damien; Kay, David; Davies, Robert; Li, Pan; Wannamaker, Marion; Forster, Cornelia; Pierce, Albert
PA Vertex Pharmaceuticals Incorporated, USA
SO PCT Int. Appl., 376 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002022601	A1	20020321	WO 2001-US28740	20010914

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI	US 2000-232795P	P	20000915
	US 2000-257887P	P	20001221
	US 2001-286949P	P	20010427

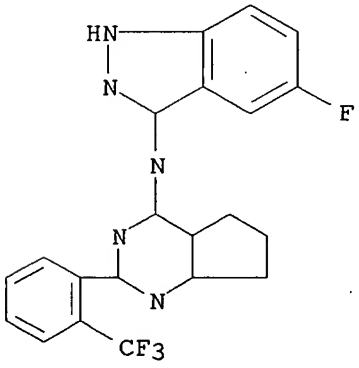
OS MARPAT 136:247579
AB Title compds. I [wherein G = Ring C or Ring D; Ring C = (un)substituted Ph, pyridinyl, pyrimidinyl, pyridazinyl, pyrazinyl, or 1,2,4-triazinyl; Ring D = (un)substituted monocyclic or bicyclic ring selected from aryl, heteroaryl, heterocyclyl, or carbocyclyl; Z1 = N or CR9; Z2 = N or CH; Z3 = N or CRx; Z4 = N or CRy; Rx and Ry = independently TR3, or taken together with their intervening atoms form an (un)satd. fused ring having 1-3 ring heteroatoms; R2 and R2a = independently R, TWR6; or C2R2R2a = (un)substituted fused ring contg. 0-3 heteroatoms; T = a bond or alkylidene chain; W = C(R6)2O, C(R6)2S0-2, C(R6)2NR6, CO, CO2, CR6OCO, CR6OCONR6, C(R6)2NR6CO, C(R6)2NR6CO2, CR6:NNR6, CR6:NO, C(R6)2NR6NR6, C(R6)2NR6SO2NR6, C(R6)2NR6CONR6, or CONR6; R = H or (un)substituted aliph., (hetero)aryl, or heterocyclyl ring; R3 = R, halo, O, OR, COR, CO2R, COCOR, COCH2COR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, NR4CO2(aliph.), NR4N(R4)2, C:NN(R4)2, C:NOR, NR4CO(R4)2, NR4SO2N(R4)2, NR4SO2R, or OCON(R4)2; R4 = R7, COR7, CO2(aliph.), CON(R7)2, or SO2R7; or N(R4)2 = heterocyclyl or heteroaryl; R6 and R7 = independently H or (un)substituted aliph. group; or N(R6)2 = heterocyclyl or heteroaryl; or N(R7)2 = heterocyclyl or heteroaryl; R9 = R, halo, OR, COR, CO2R, COCOR, etc.] were prepd. as protein kinase inhibitors, esp. as inhibitors of Aurora-2 and GSK-3, for treating diseases such as cancer, diabetes, and Alzheimer's disease. Claims cover pyrimidinyl- and pyridinyl- pyrazolamines and indazolamines I [wherein Z1 = N, CRa, or CH; Z2 = N or CH; and at least one of Z1 or Z2 = N; Z3 = CRx; Z4 = CRy; Ra = halo, OR, COR, CO2R, COCOR, NO2, CN, SO0-2R, N(R4)2, CON(R4)2, SO2N(R4)2, OCOR, NR4COR, etc.; R and R4 are defined above]. Examples include data for approx. 300 invention compds. prepd. by a variety of synthetic methods and bioassay results for the inhibition of GSK-.beta.3, Aurora-2, ERK, and Src. For instance, the N-(4-pyrimidinyl)-3-pyrazolamine II was prepd. and

exhibited Ki values of < 0.1 .mu.M for glycogen synthetase kinase 3.beta. (GSK-3.beta.) and 0.1-1.0 .mu.M for Aurora-2.

IT **404827-36-7P 404827-42-5P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5-fluoro-1H-indazol-3-yl)amine **404827-43-6P**, (1H-Indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-44-7P**, (7-Fluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-45-8P**, (5,7-Difluoro-1H-indazol-3-yl)[2-(2-trifluoromethylphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amine **404827-46-9P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](1H-indazol-3-yl)amine **404827-47-0P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](7-fluoro-1H-indazol-3-yl)amine **404827-48-1P**, [2-(2-Chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl](5,7-difluoro-1H-indazol-3-yl)amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(protein kinase inhibitor; prepn. of heterocyclylpyrazolamines and analogs as protein kinase inhibitors for treatment of cancer, diabetes, and Alzheimer's disease)

RN 404827-36-7 CAPLUS

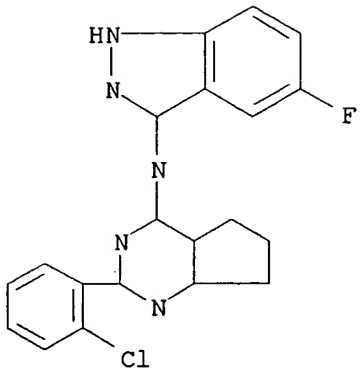
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



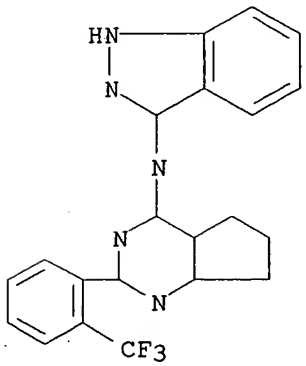
*** FRAGMENT DIAGRAM IS INCOMPLETE ***

RN 404827-42-5 CAPLUS

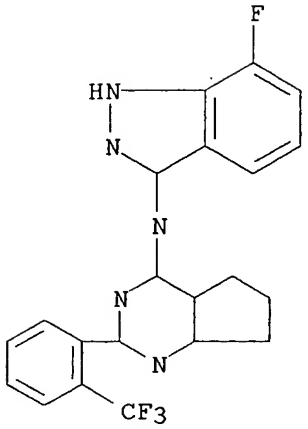
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5-fluoro- (9CI) (CA INDEX NAME)



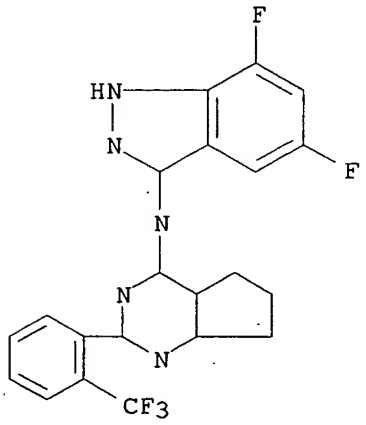
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-43-6 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



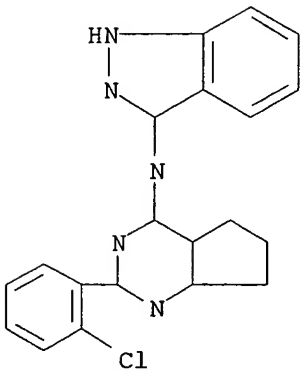
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-44-7 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



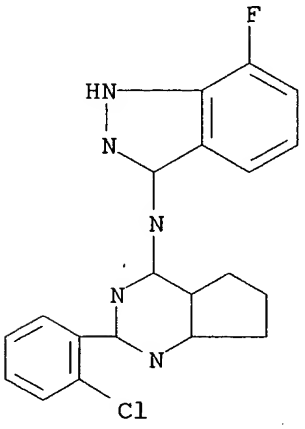
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-45-8 CAPLUS
CN 1H-Indazol-3-amine, N-[6,7-dihydro-2-[2-(trifluoromethyl)phenyl]-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



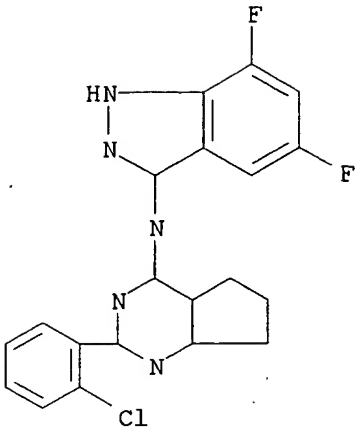
*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-46-9 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-47-0 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-7-fluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RN 404827-48-1 CAPLUS
CN 1H-Indazol-3-amine, N-[2-(2-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]-5,7-difluoro- (9CI) (CA INDEX NAME)



*** FRAGMENT DIAGRAM IS INCOMPLETE ***
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 2000:349092 CAPLUS
DN 132:347580
TI 4-Amino-2-arylcyclopenta[d]pyrimidines and their use in treatment of diseases associated with cyclic guanosine monophosphate production
IN Schindler, Ursula; Schoenafinger, Karl; Strobel, Hartmut
PA Aventis Pharma Deutschland G.m.b.H., Germany
SO Ger. Offen., 16 pp.
CODEN: GWXXBX
DT Patent
LA German

Applicant's PCT

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19853278	A1	20000525	DE 1998-19853278	19981119
WO 2000031047	A1	20000602	WO 1999-EP8382	19991103

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

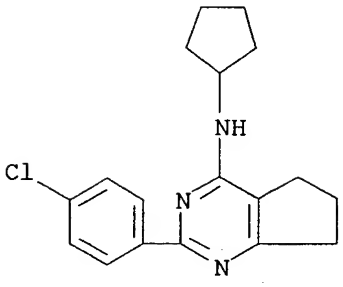
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1131302	A1	20010912	EP 1999-972626	19991103

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRAI DE 1998-19853278	A	19981119	← Foreign Priority
WO 1999-EP8382	W	19991103	

OS MARPAT 132:347580
AB Title compds. such as I [R = cyclopentylamino, morpholino, Et2N, HOCH2CH2NH, BuNH, (3-pyridylmethyl)amino; R1 = substituted phenyl] were prepd. for therapy and prophylaxis of diseases like angina pectoris and thrombosis. Thus, I (R = OH, R1 = 4-chlorophenyl) was prepd. from Me 2-oxocyclopentanecarboxylate and 4-chlorobenzamidine hydrochloride and was treated with POCl3 to give I (R = Cl, R1 = 4-chlorophenyl), which (0.265 g) reacted with 0.4 g cyclopentylamine in 1 mL N-methylpyrrolidone 5 h at 130.degree. to give 0.26 g I (R = cyclopentylamino, R1 = 4-chlorophenyl). Several products were tested for activation of sol. guanylate cyclase, which catalyzes the conversion of guanosine triphosphate to cyclic guanosine monophosphate.
IT **268557-91-1P 268557-93-3P 268558-02-7P**
268558-03-8P 268558-07-2P 268558-09-4P
268558-10-7P 268558-11-8P 268558-12-9P
268558-17-4P 268558-18-5P 268558-19-6P
268558-20-9P 268558-21-0P 268558-22-1P
268558-25-4P 268558-26-5P 268558-27-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and effect on guanylate cyclase activation)
RN 268557-91-1 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-N-cyclopentyl-6,7-dihydro- (9CI) (CA INDEX NAME)

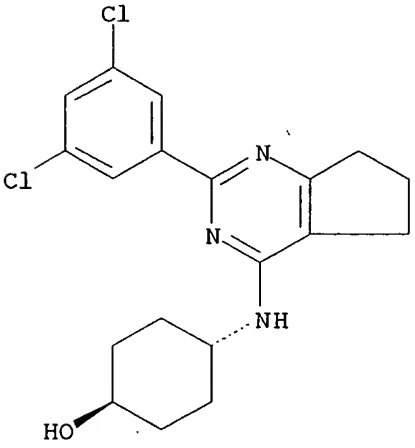


RN 268557-93-3 CAPLUS
CN Cyclohexanol, 4-[[2-(3,5-dichlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amino]-, trans-, monomethanesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

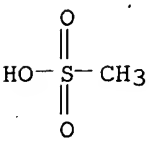
CRN 268557-92-2
CMF C19 H21 Cl2 N3 O

Relative stereochemistry.



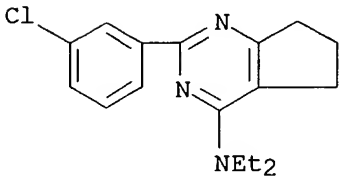
CM 2

CRN 75-75-2
CMF C H4 O3 S



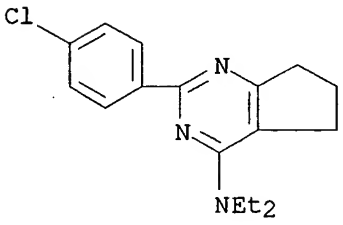
RN 268558-02-7 CAPLUS

CN 5H-Cyclopentapyrimidin-4-amine, 2-(3-chlorophenyl)-N,N-diethyl-6,7-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)



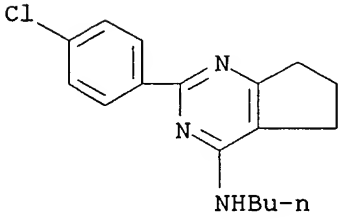
● HCl

RN 268558-03-8 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-N,N-diethyl-6,7-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)

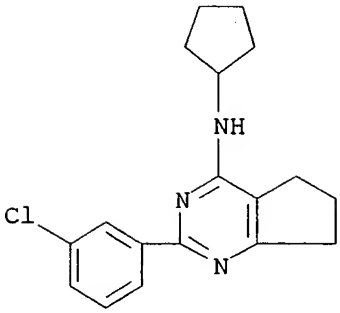


● HCl

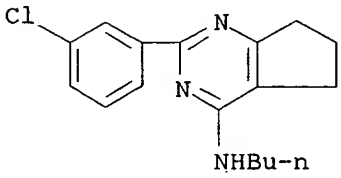
RN 268558-07-2 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-2-(4-chlorophenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



RN 268558-09-4 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3-chlorophenyl)-N-cyclopentyl-6,7-dihydro- (9CI) (CA INDEX NAME)

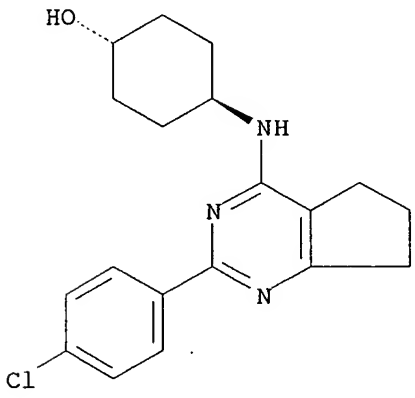


RN 268558-10-7 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-2-(3-chlorophenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)

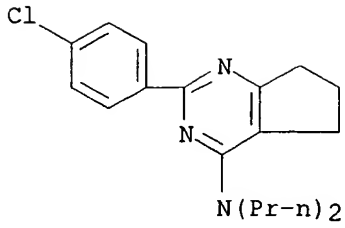


RN 268558-11-8 CAPLUS
CN Cyclohexanol, 4-[[2-(4-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amino]-, trans- (9CI) (CA INDEX NAME)

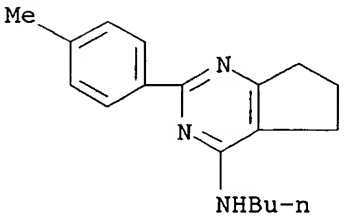
Relative stereochemistry.



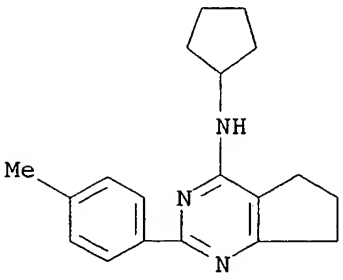
RN 268558-12-9 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N,N-dipropyl- (9CI) (CA INDEX NAME)



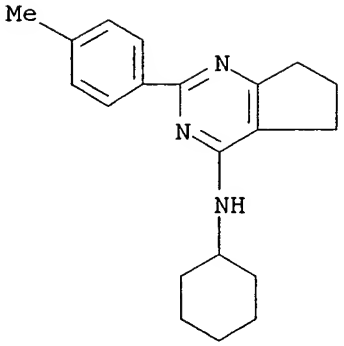
RN 268558-17-4 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-6,7-dihydro-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)



RN 268558-18-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclopentyl-6,7-dihydro-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

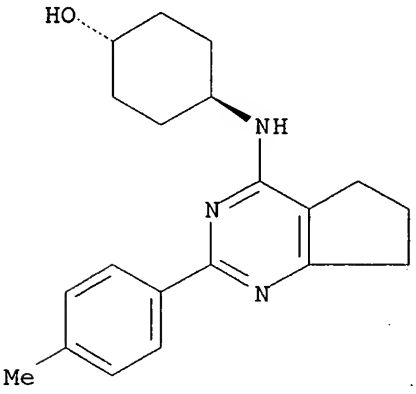


RN 268558-19-6 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclohexyl-6,7-dihydro-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)

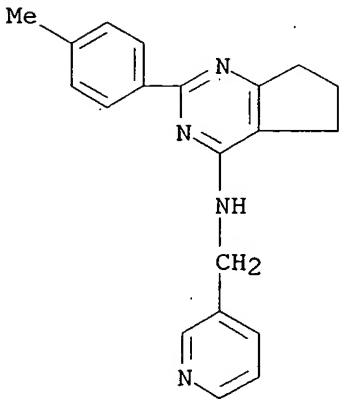


RN 268558-20-9 CAPLUS
CN Cyclohexanol, 4-[[6,7-dihydro-2-(4-methylphenyl)-5H-cyclopentapyrimidin-4-yl]amino]-, trans- (9CI) (CA INDEX NAME)

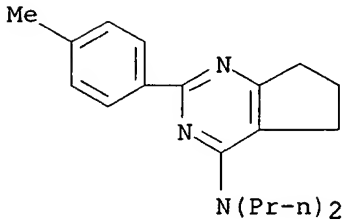
Relative stereochemistry.



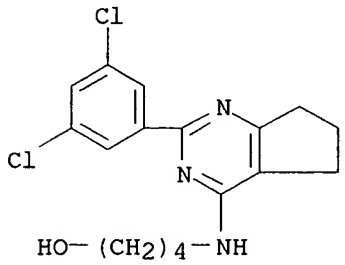
RN 268558-21-0 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 6,7-dihydro-2-(4-methylphenyl)-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



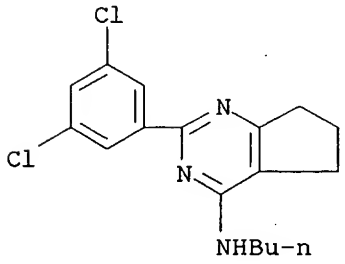
RN 268558-22-1 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 6,7-dihydro-2-(4-methylphenyl)-N,N-dipropyl- (9CI) (CA INDEX NAME)



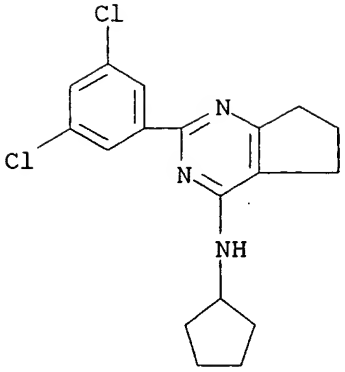
RN 268558-25-4 CAPLUS
CN 1-Butanol, 4-[[2-(3,5-dichlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amino]- (9CI) (CA INDEX NAME)



RN 268558-26-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-2-(3,5-dichlorophenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



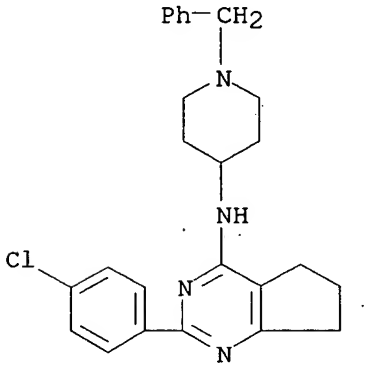
RN 268558-27-6 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclopentyl-2-(3,5-dichlorophenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



IT **268557-94-4P 268557-95-5P 268557-96-6P**
268557-97-7P 268557-98-8P 268557-99-9P
268558-00-5P 268558-01-6P 268558-04-9P
268558-05-0P 268558-06-1P 268558-08-3P
268558-15-2P 268558-16-3P 268558-24-3P
268558-28-7P 268558-29-8P 268558-31-2P
268558-32-3P 268558-33-4P 268558-34-5P
268558-35-6P 268558-36-7P 268558-38-9P
268558-39-0P 268558-40-3P 268558-41-4P
268558-42-5P 268558-43-6P 268558-44-7P
268558-45-8P 268558-46-9P 268558-47-0P
268558-48-1P 268558-50-5P 268558-51-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 268557-94-4 CAPLUS

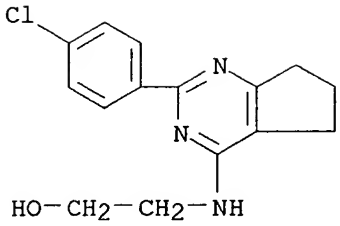
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-[1-(phenylmethyl)-4-piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



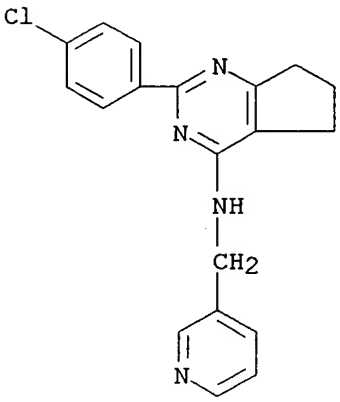
●2 HCl

RN 268557-95-5 CAPLUS

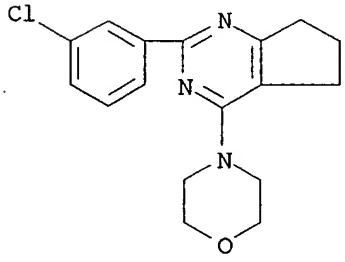
CN Ethanol, 2-[[2-(4-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amino]- (9CI) (CA INDEX NAME)



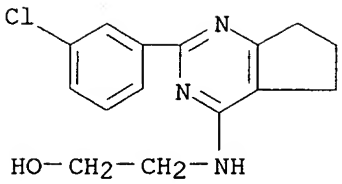
RN 268557-96-6 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



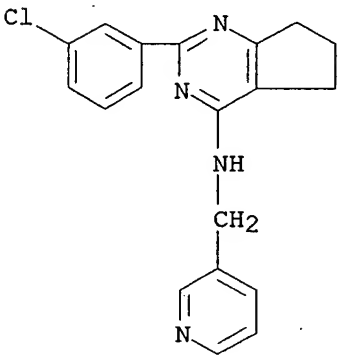
RN 268557-97-7 CAPLUS
CN 5H-Cyclopentapyrimidine, 2-(3-chlorophenyl)-6,7-dihydro-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



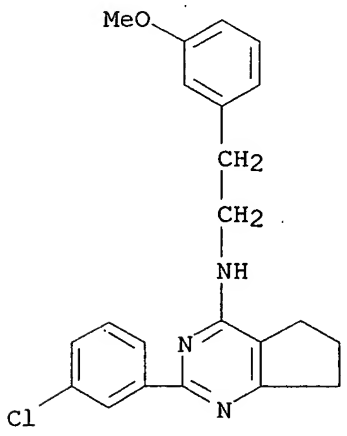
RN 268557-98-8 CAPLUS
CN Ethanol, 2-[[2-(3-chlorophenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]amino]- (9CI) (CA INDEX NAME)



RN 268557-99-9 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3-chlorophenyl)-6,7-dihydro-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

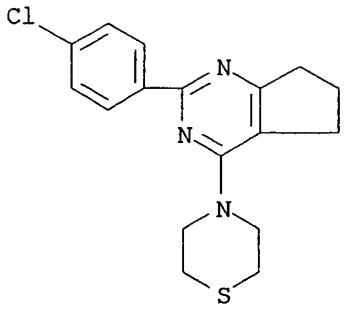


RN 268558-00-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3-chlorophenyl)-6,7-dihydro-N-[2-(3-methoxyphenyl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

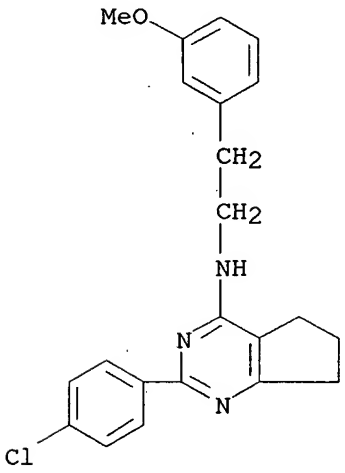


● HCl

RN 268558-01-6 CAPLUS
CN 5H-Cyclopentapyrimidine, 2-(4-chlorophenyl)-6,7-dihydro-4-(4-thiomorpholinyl)- (9CI) (CA INDEX NAME)

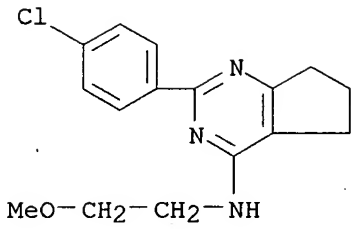


RN 268558-04-9 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-[2-(3-methoxyphenyl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



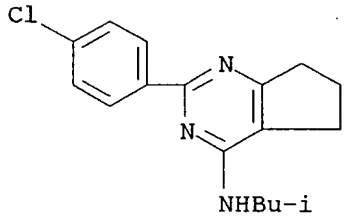
● HCl

RN 268558-05-0 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-(2-methoxyethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

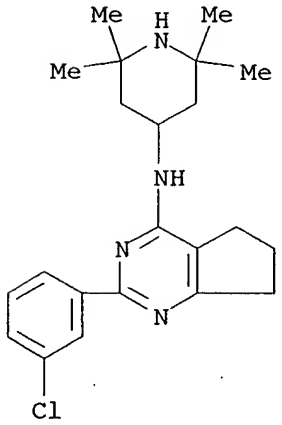


● HCl

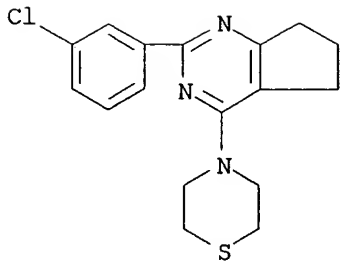
RN 268558-06-1 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(4-chlorophenyl)-6,7-dihydro-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)



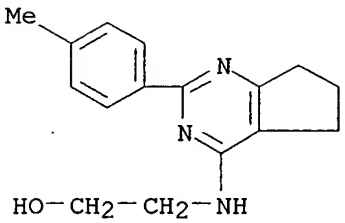
RN 268558-08-3 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3-chlorophenyl)-6,7-dihydro-N-(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



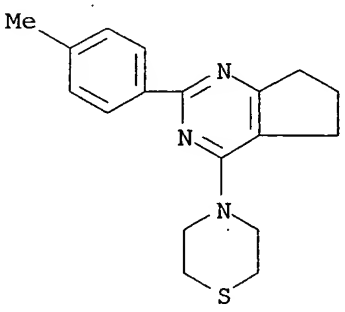
RN 268558-15-2 CAPLUS
CN 5H-Cyclopentapyrimidine, 2-(3-chlorophenyl)-6,7-dihydro-4-(4-thiomorpholinyl)- (9CI) (CA INDEX NAME)



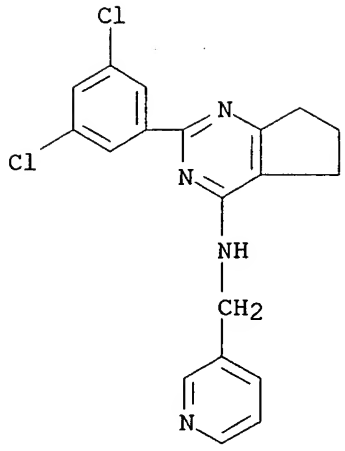
RN 268558-16-3 CAPLUS
CN Ethanol, 2-[[6,7-dihydro-2-(4-methylphenyl)-5H-cyclopentapyrimidin-4-yl]amino]- (9CI) (CA INDEX NAME)



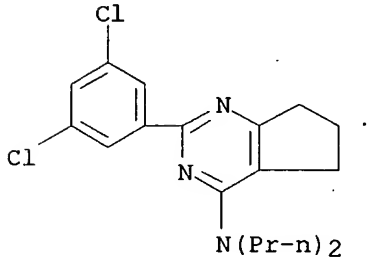
RN 268558-24-3 CAPLUS
CN 5H-Cyclopentapyrimidine, 6,7-dihydro-2-(4-methylphenyl)-4-(4-thiomorpholinyl)- (9CI) (CA INDEX NAME)



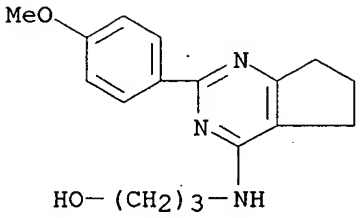
RN 268558-28-7 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3,5-dichlorophenyl)-6,7-dihydro-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)



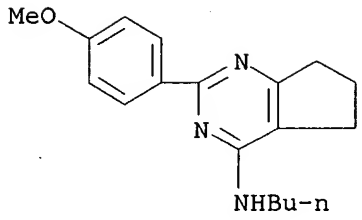
RN 268558-29-8 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3,5-dichlorophenyl)-6,7-dihydro-N,N-dipropyl- (9CI) (CA INDEX NAME)



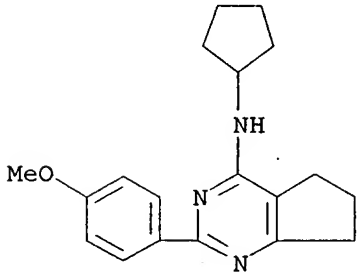
RN 268558-31-2 CAPLUS
CN 1-Propanol, 3-[[6,7-dihydro-2-(4-methoxyphenyl)-5H-cyclopentapyrimidin-4-yl]amino]- (9CI) (CA INDEX NAME)



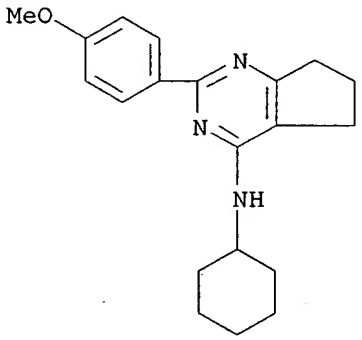
RN 268558-32-3 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-6,7-dihydro-2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



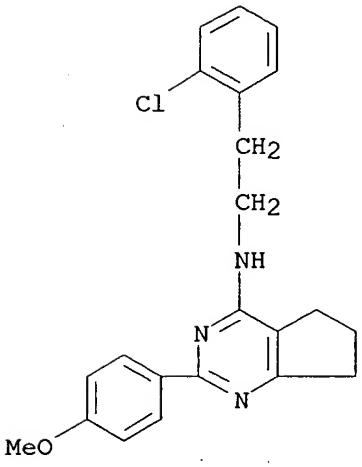
RN 268558-33-4 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclopentyl-6,7-dihydro-2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



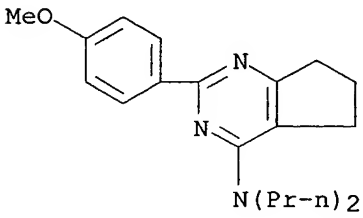
RN 268558-34-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclohexyl-6,7-dihydro-2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



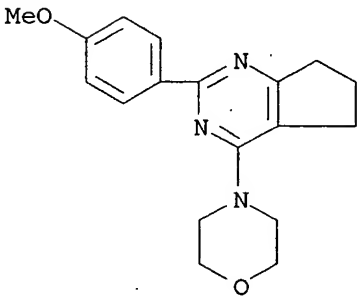
RN 268558-35-6 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-[2-(2-chlorophenyl)ethyl]-6,7-dihydro-2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



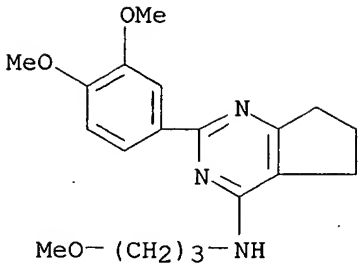
RN 268558-36-7 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 6,7-dihydro-2-(4-methoxyphenyl)-N,N-dipropyl- (9CI) (CA INDEX NAME)



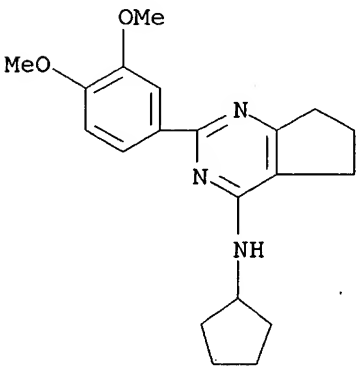
RN 268558-38-9 CAPLUS
CN 5H-Cyclopentapyrimidine, 6,7-dihydro-2-(4-methoxyphenyl)-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



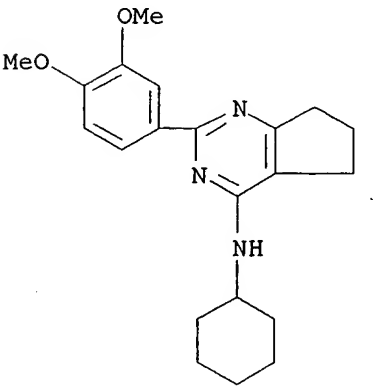
RN 268558-39-0 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3,4-dimethoxyphenyl)-6,7-dihydro-N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)



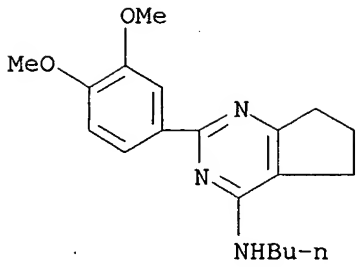
RN 268558-40-3 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclopentyl-2-(3,4-dimethoxyphenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



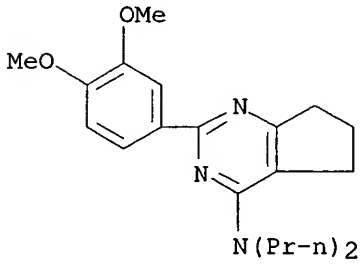
RN 268558-41-4 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-cyclohexyl-2-(3,4-dimethoxyphenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



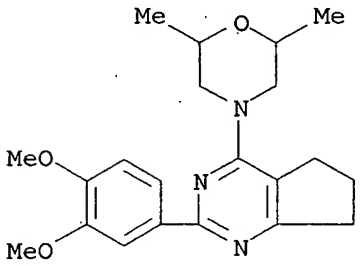
RN 268558-42-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, N-butyl-2-(3,4-dimethoxyphenyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



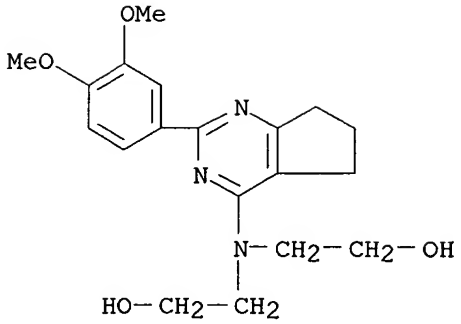
RN 268558-43-6 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3,4-dimethoxyphenyl)-6,7-dihydro-N,N-dipropyl- (9CI) (CA INDEX NAME)



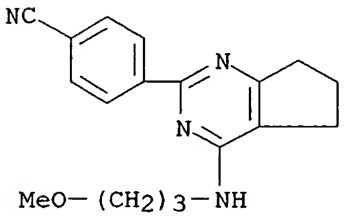
RN 268558-44-7 CAPLUS
CN 5H-Cyclopentapyrimidine, 2-(3,4-dimethoxyphenyl)-4-(2,6-dimethyl-4-morpholinyl)-6,7-dihydro- (9CI) (CA INDEX NAME)



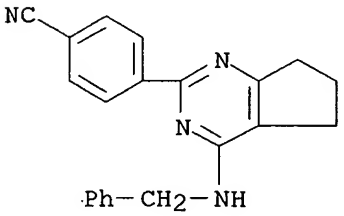
RN 268558-45-8 CAPLUS
CN Ethanol, 2,2'-[[2-(3,4-dimethoxyphenyl)-6,7-dihydro-5H-cyclopentapyrimidin-4-yl]imino]bis- (9CI) (CA INDEX NAME)



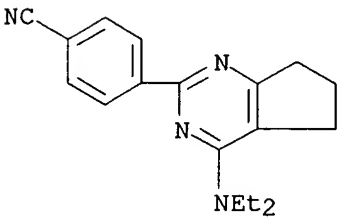
RN 268558-46-9 CAPLUS
CN Benzonitrile, 4-[6,7-dihydro-4-[(3-methoxypropyl)amino]-5H-cyclopentapyrimidin-2-yl]- (9CI) (CA INDEX NAME)



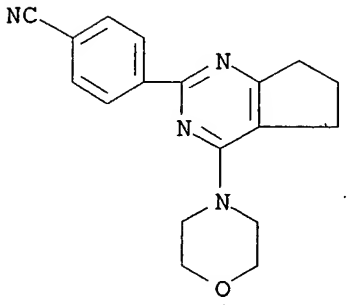
RN 268558-47-0 CAPLUS
CN Benzonitrile, 4-[6,7-dihydro-4-[(phenylmethyl)amino]-5H-cyclopentapyrimidin-2-yl]- (9CI) (CA INDEX NAME)



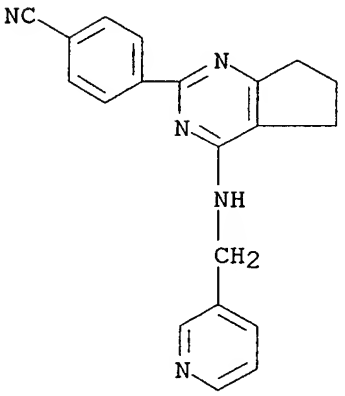
RN 268558-48-1 CAPLUS
CN Benzonitrile, 4-[4-(diethylamino)-6,7-dihydro-5H-cyclopentapyrimidin-2-yl]- (9CI) (CA INDEX NAME)



RN 268558-50-5 CAPLUS
CN Benzonitrile, 4-[6,7-dihydro-4-(4-morpholinyl)-5H-cyclopentapyrimidin-2-yl]- (9CI) (CA INDEX NAME)



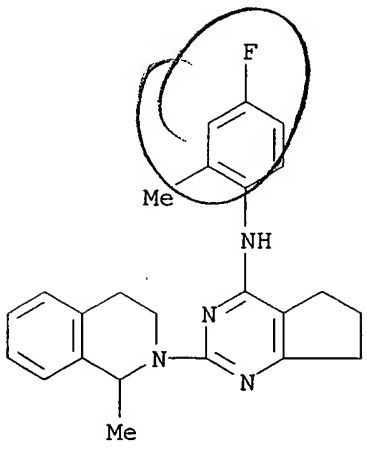
RN 268558-51-6 CAPLUS
CN Benzonitrile, 4-[6,7-dihydro-4-[(3-pyridinylmethyl)amino]-5H-cyclopentapyrimidin-2-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 1996:401560 CAPLUS
DN 125:58535
TI Preparation of pyrimidine derivatives as gastric secretion inhibitors
IN Lee, Jong Wook; Chae, Jeong Seok; Kim, Chang Seop; Kim, Jae Kyu; Lim, Dae Sung; Shon, Moon Kyu; Choi, Yeon Shik; Lee, Sang Ho
PA Yuhan Corporation, S. Korea
SO PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9605177	A1	19960222	WO 1995-KR105	19950810
	W: AU, CA, CN, JP, RU, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2197298	AA	19960222	CA 1995-2197298	19950810
	AU 9531225	A1	19960307	AU 1995-31225	19950810
	AU 688087	B2	19980305		
	EP 775120	A1	19970528	EP 1995-927092	19950810
	R: CH, DE, ES, FR, GB, IT, LI, SE				
	CN 1155281	A	19970723	CN 1995-194599	19950810
	JP 09509188	T2	19970916	JP 1995-507208	19950810
	JP 2896532	B2	19990531		
	RU 2129549	C1	19990427	RU 1997-104208	19950810
	US 5750531	A	19980512	US 1997-776220	19970123
PRAI	KR 1994-19997	A	19940813		
	KR 1994-19998	A	19940813		
	WO 1995-KR105	W	19950810		

OS MARPAT 125:58535
AB The title compds. I and II [R4 and R5, which may be the same or different, are independently hydrogen or a C1-C3 alkyl group, or jointly form a cyclopentyl or cyclohexyl ring; A is Q1 wherein R1 and R2 are, independently of each other, hydrogen or a C1-C3 alkyl group, and R3 is hydrogen, a C1-C3 alkyl group or a halogen; and B is Q2, etc.; R6 is hydrogen or a C1-C3 alkyl group] are prepd. 2-(2-Methyl-4-fluorophenylamino)-4-(1-methyl-1,2,3,4-tetrahydroisoquinolin-2-yl)pyrimidine hydrochloride (prepn. given) in vitro showed IC50 of 5.4 .mu.M against H+/K+ ATPase, vs. 5.8 .mu.M for omeprazole. The inhibition of enzyme activity by compds. of this invention is reversible.
IT **178308-05-9P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyrimidine derivs. as gastric secretion inhibitors)
RN 178308-05-9 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 2-(3,4-dihydro-1-methyl-2(1H)-isoquinolinyl)-N-(4-fluoro-2-methylphenyl)-6,7-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)

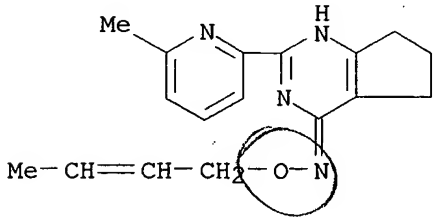


● HCl

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 1994:534144 CAPLUS
DN 121:134144
TI Substituted pyridine pesticides and agrochemical fungicides
IN Mueller, Thomas; Eicken, Karl; Harreus, Albrecht; Koenig, Hartmann; Rentzea, Costin; Ammermann, Eberhard; Lorenz, Gisela
PA BASF A.-G., Germany
SO Eur. Pat. Appl., 51 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

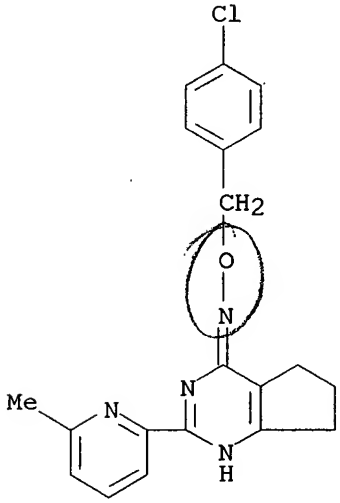
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 588146	A2	19940323	EP 1993-113887	19930831
	EP 588146	A3	19941026		
	EP 588146	B1	19981111		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
	IL 106786	A1	19970218	IL 1993-106786	19930824
	CA 2105001	AA	19940311	CA 1993-2105001	19930827
	AT 173254	E	19981115	AT 1993-113887	19930831
	US 5346899	A	19940913	US 1993-115041	19930901
	AU 9346199	A1	19940317	AU 1993-46199	19930909
	AU 664478	B2	19951116		
	HU 66580	A2	19941228	HU 1993-2559	19930909
	JP 06199792	A2	19940719	JP 1993-225351	19930910
PRAI	DE 1992-4230215		19920910		

OS MARPAT 121:134144
AB The title compds. [I; R1 = H, (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, (un)substituted C3-7 cycloalkyl, etc.; R2-R4 = H, C1-6 alkyl, (un)substituted Ph; R5 = H, C1-6 alkyl, C3-7 cycloalkyl, etc.; R6 = H, C1-4 alkyl, C1-4 alkoxy, C1-4 alkoxycarbonyl, halogen, (un)substituted Ph; R7 = H, C1-12 alkyl, C3-12 alkenyl, C3-8 alkynyl, monocyclic or polycyclic (un)substituted C5-10 cycloalkenyl, C5-10 cycloalkenyl-substituted Me, etc.; X = CH, N; Y = C(R10):N, NR11; R10 = H, C1-6 alkyl; R11 = H, C1-6 alkyl, (un)substituted C3-8 cycloalkyl, (un)substituted Ph, etc.], useful as agrochem. pesticides and fungicides, are prepd. Thus, 4-formyl-2-(2-pyridyl)pyrimidine was condensed with hydroxylammonium chloride, producing I [R1-R6 = H, X = N, Y = C(:NOH)H], m.p. 190.degree., in 46% yield.
IT **156825-75-1P 156825-76-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as pesticide and agrochem. fungicide)
RN 156825-75-1 CAPLUS
CN 4H-Cyclopentapyrimidin-4-one, 1,5,6,7-tetrahydro-2-(6-methyl-2-pyridinyl)-, O-2-butenyloxime (9CI) (CA INDEX NAME)



RN 156825-76-2 CAPLUS

CN 4H-Cyclopentapyrimidin-4-one, 1,5,6,7-tetrahydro-2-(6-methyl-2-pyridinyl)-, O-[(4-chlorophenyl)methyl]oxime (9CI) (CA INDEX NAME)

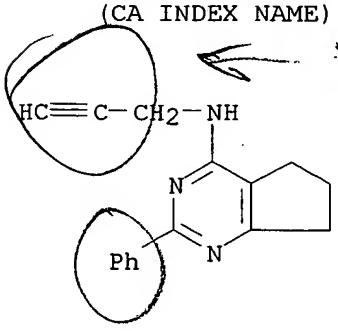


L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
AN 1992:571466 CAPLUS
DN 117:171466
TI Preparation of 2-phenylpyrimidines as agrochemical fungicides
IN Minn, Klemens; Braun, Peter; Sachse, Burkhard; Wicke, Heinrich
PA Hoechst A.-G., Germany
SO Ger. Offen., 48 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4029654	A1	19920402	DE 1990-4029654	19900919
ZA 9107429	A	19920527	ZA 1991-7429	19910918
WO 9205159	A1	19920402	WO 1991-EP1790	19910919

W: BR, CA, CS, FI, NO, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE

PRAI DE 1990-4029654 19900919
OS MARPAT 117:171466
AB Title compds. I [R1 - R3 = H, halo, H2N, O2N, cyano, thiocyanato, C1-4 alkyl, C1-4 alkoxy, C1-4 alkylamino, C1-4 dialkylamino, halo-C1-4-alkyl, C3-9 cycloalkyl, C1-4 alkylcarbonyl, (substituted) Ph, (substituted) PhO, etc.; R1, R2 and(or) R3 = carbocyclyl, heterocyclyl, etc.; R4 = H, halo, C1-4 alkyl, hydroxy-C1-4-alkyl, C1-4 alkoxy-C1-4-alkyl, (substituted) Ph, (substituted) PhO, (substituted) heterocyclyl, etc.; R5 = halo, C1-9 alkoxy, C2-6 alkynyl, C3-9 cycloalkyl, etc.; R6 = H, halo, hydroxy-C1-4-alkyl, halo-C1-4-alkylthio, C3-9 cycloalkyl, C3-9 heterocyclylalkyl, C1-4 alkoxycarbonyl, Ph-C1-4-alkyl, etc.; R5R6 = carbocyclyl, heterocyclyl; X = O, S, HN, etc.; Y = O, HN, C1-4-alkylamino, absent when X = O or HN, etc.; n = 0-8] and salts thereof, are prepd. To NaH in THF was added dropwise a mixt. of HCO2Et and MeOCH2CO2Me to give, after workup, 5-methoxy-2-phenyl-4(1H)pyrimidinone which was treated with POCl3 and PhNMe2 to give 4-chloro-5-methoxy-2-phenylpyrimidine, which was treated with NaH followed by HC.tplbond.CCH2OH to give I (R1-R4, R6 = H; R5 = MeO; X = O, n = 1) (II). In a test against Pseudocercosporella herpotrichoides, II at 60 ppm gave 100% control.
IT **142652-19-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as agrochem. fungicide)
RN 142652-19-5 CAPLUS
CN 5H-Cyclopentapyrimidin-4-amine, 6,7-dihydro-2-phenyl-N-2-propynyl- (9CI) (CA INDEX NAME)



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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -7.43      -7.43

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FILE LAST UPDATED:  01 May 1997 (19970501/UP)

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     FILE 'CAOLD' ENTERED AT 16:11:44 ON 30 JUN 2002

=> s l3
L5            0 L3

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.38     194.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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